

Community Workshop (Virtual) June 13, 2023





6:00 pm Welcome

6:05 pm Background - Jennifer Ott, City Manager (recorded)

6:10 pm Why Grand St is important - Andrew Thomas, Planning, Building & Transportation Director Why Grand St is important

- 6:15 pm Alternatives studied & staff recommendations Rochelle Wheeler, Senior Transportation Coordinator
- 6:35 pm Your comments & questions

#### 7:30 pm Adjourn

# Background

- <u>November 2022</u> Council approved street designs from Shore Line to Encinal as part of a re-paving project
  - Constrained by curb-to-curb dimension
  - Prior to Active Transportation Plan approval
  - Staff committed to review entire corridor
- January 2023 Staff retained new transportation consultant to review entire corridor
  - Direction to explore alternatives without budget and curb-to-curb constraints
  - Paid special attention to citywide importance of unique north-south connection
- January June 2023 Staff and consultant study corridor alternatives and gather community input
  - Staff considering recommendation of alternative design

# **Corridor Study Goals - Updated**

- Improve safety for all consistent with recently approved Active Transportation Plan and other policy goals
  - People walking, bicycling and driving, and youth, seniors and those with disabilities
- Design for the full length of Grand Street corridor from Shore Line to Clement
  - Conditions vary over corridor's 20 blocks
- Consider the full width of the public right-of-way, including sidewalks
  - Not just the street from curb-to-curb
- Consider costs and funding
  - Don't lose the \$827,000 in grant funds due to delays and balance costs & benefits
- Consider phased construction over time
  - Deliver project in phases (similar to Cross Alameda Trail implementation)
- Recommendations to City Council on one or more phases in July 2023
  - Important to move quickly to address safety concerns

# Why is Grand Street important?







#### A critical connector:

- Northern to southern waterfront
- Cross Alameda Trail to Shore Line Dr, two major east-west, low stress bikeways
- One of only two north/south streets between Eighth St and Park St

### Key Link in Citywide Low-Stress Bicycle Network



## **An Important School Access Route**

 Grand St travels through the center of Wood Middle School enrollment area (shown in green)



Map of AUSD middle school enrollment areas

# A High Injury Corridor

- City of Alameda, Vision Zero Action Plan
- **Countywide**, Alameda CTC Countywide Active Transportation Plan
- Region, MTC regional High Injury Network

**Collisions on Grand St disproportionately affect youth and elders.** 2013 -2022 data:

- 39% of bicyclists injured in collisions were youth under age 18
- 86% of pedestrians injured or killed in collisions were elders age 65+

![](_page_7_Figure_7.jpeg)

# **Grand Street Today**

![](_page_8_Figure_1.jpeg)

- 2 Travel lanes (11')
- 2 Parking lanes (8')
- 2 Sidewalks (5-6')
- 2 Standard unprotected bike lanes (5')
- 2 Landscaping areas (6')
- Street is 48' wide (curb to curb)

EXISTING CONDITIONS

### **Grand St Improvements: Three Segments**

![](_page_9_Figure_1.jpeg)

### **Corridor Study Results: 4 Alternatives to Consider**

Council-Approved Design (November 2022):

- Segment A: Shoreline to Otis:
  - 2-way bikeway on east side next to Wood School
- Segment B: Otis to Encinal:
  - 1-way parking/bollard-protected bikeways on each side of street
- Segment C: Encinal to Clement: TBD with further study

Alternative #1: 2-way bikeway for whole corridor (Shoreline to Clement)Alternative #2: 1-way raised bikeways on each side of street (Otis to Clement)Alternative #3: Enhanced raised 1-way bikeway (Otis to Clement)

### Alternatives are similar in many ways

	Council Approved Design	Alternative 1	Alternative 2	Alternative 3
2 travel lanes	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Pedestrian improvements	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Low stress, separated bike lanes	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Bikeway raised to sidewalk level		$\checkmark$	$\checkmark$	$\checkmark$
Auto parking on both sides of street, at the curbs		$\checkmark$	$\checkmark$	$\checkmark$
Curb to curb street width narrowed		$\checkmark$	$\checkmark$	$\checkmark$

### Council-Approved design for Segment A: Shore Line to Otis 2-way bikeway

![](_page_12_Picture_1.jpeg)

- Parking/bollard-protected, on east side of street, next to Wood School
- Fully funded using \$827,000 in grant funds (+ local funds)
- Can be ready for construction in 2024
- No alternatives developed for this segment

### Council-Approved design for Segment B: Otis to Encinal 1-way bikeways

![](_page_13_Figure_1.jpeg)

- Bikeways on both sides of street, protected by parked cars or bollards
- Parking for half blocks only, on each side of street ("chicane")
- Can be ready for construction in 2024

### Council-Approved design for Segment B: Otis to Encinal 1-way bikeways

![](_page_14_Picture_1.jpeg)

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### Council-Approved design *extended North* Segment C: Encinal to Clement 1-way bikeways

![](_page_15_Picture_1.jpeg)

- More frequent driveways from Encinal to Clement, so more parking impacts
- Up to 75% parking loss (as compared to Otis to Encinal at 60%)
- If parking is on one side of street only, then less parking loss (50%)

### Council-Approved design *extended North* Segment C: Encinal to Clement 1-way bikeways

![](_page_16_Picture_1.jpeg)

## Alternative #1: Raised 2-way Bikeway

![](_page_17_Figure_1.jpeg)

- Moves curb 11 ft. to create 2-way raised bikeway on east side of Grand
- Street width curb to curb is reduced from 48' to 37' wide
- Parking on both sides, at curb

## Alternative #1: Raised 2-way Bikeway

![](_page_18_Picture_1.jpeg)

#### Pros

- More separation between bicyclists and cars
- Less striping and plastic bollards
- Parking at curbs
- Less parking loss (5% to 15% total reduction)

#### Cons

- Intersections more complicated and costly than 1-way bikeways
- More expensive than Council-Approved design

## Alternative #2: Raised 1-way Bikeways

![](_page_19_Figure_1.jpeg)

- Moves curbs 6' on both sides of street, for 1-way raised bikeway on each side of street
- Street is reduced from 48' to 36' wide
- Parking on both sides, at curbs

# Alternative #2: Raised 1-way Bikeways

![](_page_20_Picture_1.jpeg)

#### Pros

- More separation between bicyclists and cars
- Intersection/driveway crossings more intuitive than 2-way bikeway
- Less striping and plastic bollards
- Parking at curbs
  - Less parking loss (10-30%) than Council-Approved, but more than Alternative #1

#### Cons

- Narrowest bikeways of all Alternatives
- Narrowest curb to curb width (for cars)
- More expensive than Council-Approved and Alternative #1

## Alternative #3: Enhanced Raised 1-way Bikeways

![](_page_21_Figure_1.jpeg)

- Moves curb 5' on each side of street (similar to Alternative #2)
- Moves all utilities and replaces mature trees to allow for 1-way bikeways next to sidewalks
- Parking on both sides, at curbs
- Street is reduced from 48' to 38' wide

## Alternative #3: Enhanced Raised 1-way Bikeways

#### Pros

- Most separation between bicyclists and cars
- Intersection/driveway crossings more intuitive than 2-way bikeway
- Parking at curbs
- Less parking loss (10-30%) than Council-Approved, but more than Alternative #1

#### Cons

- Most expensive of all alternatives
- Takes longest to build
- Removes all mature trees, and replaces with younger, smaller trees

![](_page_22_Picture_10.jpeg)

# **Cost Comparison**

Design	Cost	: Estimate	Inci Cou des	rease over Incil-Approved ign
Council-Approved Design				
Segment A: Shore Line to Otis - Fully funded with grant	\$	1,500,000		
Segment B: Otis to Encinal		2,970,000		
Segment C: Encinal to Clement	\$	4,080,000		
Total (Segments B+C)	\$	7,050,000		
Alternative #1: Raised 2-way bikeway				
Segment B: Otis to Encinal	\$	5,610,000	\$	2,640,000
Segment C: Encinal to Clement		7,720,000	\$	3,640,000
Total (Segments B+C)	\$	13,330,000	\$	6,280,000
Alternative #2: Raised 1-way bikeways				
Segment B: Otis to Encinal	\$	6,880,000	\$	3,910,000
Segment C: Encinal to Clement	\$	9,690,000	\$	5,610,000
Total (Segments B+C)	\$	16,570,000	\$	9,520,000
Alternative #3: Enhanced raised 1-way bikeways		· ·		
Total (Segments B+C)	\$	24,370,000		\$17,320,000

*Costs estimates are total costs: construction, design, construction management, escalation, and contingencies.* 

# Parking Comparison

Design	Percent of Existing Parking Removed
Council-Approved	60-70%
Alternative #1: Raised 2-way bikeway	5-15%
Alternative #2: Raised 1-way bikeways	10-30%
Alternative #3: Enhanced raised 1-way bikeways	10-30%

Ranges are estimates, and are primarily based on amount of red curb added at driveways, to be determined based on site conditions, best practices and safety.

# **Implementation Timing Comparison**

Design	Estimated Year to Begin Construction
Council-Approved	Segments A and B in 2024 Segment C in 2026 (grant funds needed)
Alternative #1: Raised 2-way bikeway	Segment A in 2024 Segment B in 2025 (if all local funds); in 2026-27 (if grant funds) Segment C by 2030 (grant funds needed)
Alternative #2: Raised 1-way bikeways	Segment A in 2024 Segment B in 2025 (if all local funds); in 2026-27 (if grant funds) Segment C by 2030 (grant funds needed)
Alternative #3: Enhanced raised 1-way bikeways	Segment A in 2024 Segment B in 2028-29 (with grant funds) Segment C by 2030 (grant funds needed)

Timing based on estimates of availability of, and success in securing, grant funds.

# Summary Comparison

Design	Overview
Council-Approved	<ul> <li>Parking/bollard-protected bikeways</li> <li>Least expensive</li> <li>Quickest to build of all three segments</li> <li>Most parking loss</li> </ul>
Alternative #1: Raised 2-way bikeway	<ul> <li>More separation between bicyclists and cars; 2-way bikeways less intuitive for all</li> <li>Second least expensive</li> <li>Second fastest to build</li> <li>Least parking loss</li> </ul>
Alternative #2: Raised 1-way bikeways	<ul> <li>More separation between bicyclists and cars, but narrowest bikeways</li> <li>Third least expensive</li> <li>Also second fastest to build</li> <li>More parking loss than Alternative #1, but less than Council-Approved.</li> </ul>
Alternative #3: Enhanced raised 1-way bikeways	<ul> <li>Most separation between bicyclists and cars</li> <li>Most expensive</li> <li>Takes longest to build</li> <li>Most disruptive to neighborhood character</li> <li>Similar parking loss to Alternative #2</li> </ul>

## **Staff Recommendations**

- Proceed with Council-Approved design for Segment A: Shore Line to Otis. Construct in 2024.
- Pursue Alternative #1 instead of Council-Approved design, to create a continuous 2-way bikeway for the full corridor.

## **Next Steps**

- What your comments and questions?
- Comment form on project web page
- Participate in future meetings:
  - Transportation Commission Meeting June 21
    - Email comments to Commissioners: tc@alamedaca.gov
  - City Council Meeting July 18
- Everything posted to project webpage: www.alamedaca.gov/grand